

TRANSPARENT FILTERED CAPILLARIES

ABSTRACT OF THE INVENTION

A microfluidic reactor (10) for trapping one or more particles of predetermined nominal size or range of sizes that have entered a flow inlet (12) includes a transparent reaction zone (14) which also serves as an in-situ detection zone wherein the detection zone is arranged so as substantially to correspond in shape to an optical detector (456). A porous filter (16) having a plurality of holes (160) being smaller than the nominal size or range of sizes of the particles (200) are arranged so as to trap the particles in the reaction zone (14) while a fluid (18) flows from the flow inlet (12) through the reaction zone (14) and the filter (16).